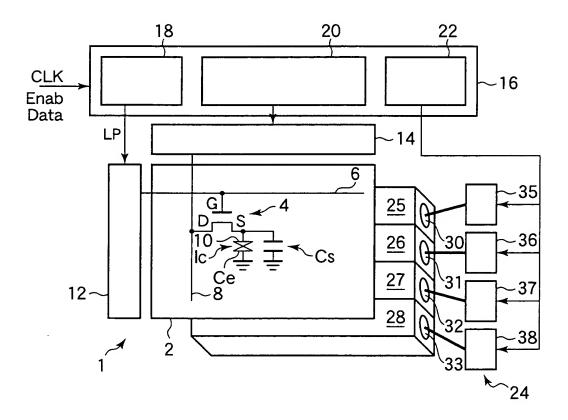
ILLUMINATION DEVICE AND LIQUID ... Oct. 29, 2003
Robayashi et al.
Greer, Burns & Crain, Ltd. (Patrick Burns)
Ref. No. 1324.68599
Sheet 1 of 77 (312) 360 0080

FIG.1



ILLUMINATION DEVICE AND LIQUID ... Oct. 29, 2003 Robayashi et al. Greer, Burns & Crain, Ltd. (Patrick Burns) Ref. No. 1324.68599 Sheet 2 of 77 (312) 360 0080

FIG.2

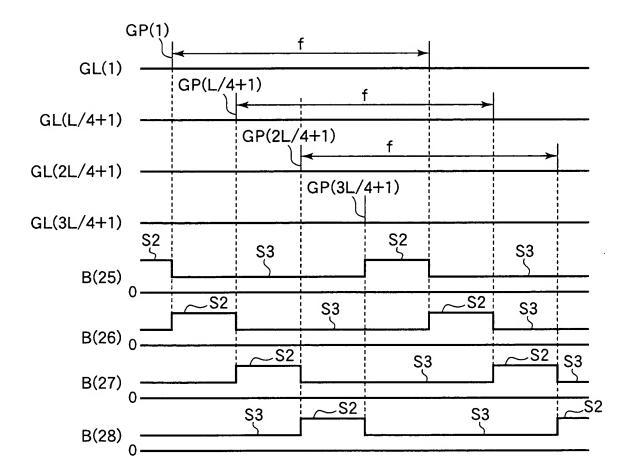
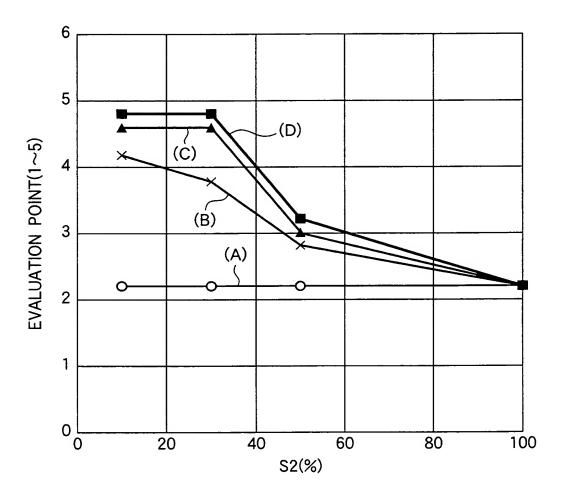
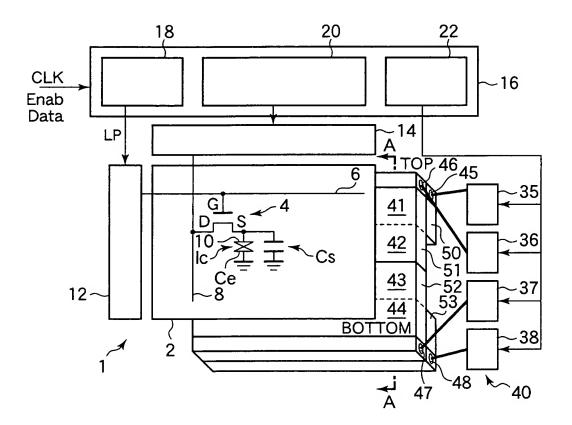


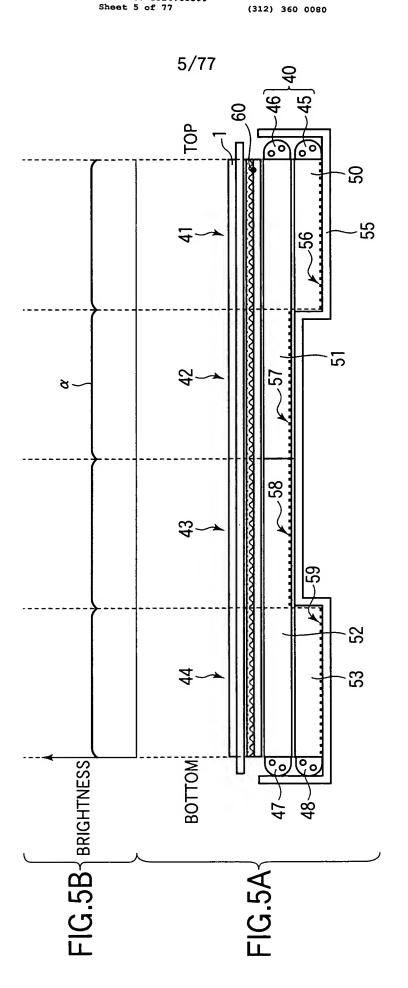
FIG.3

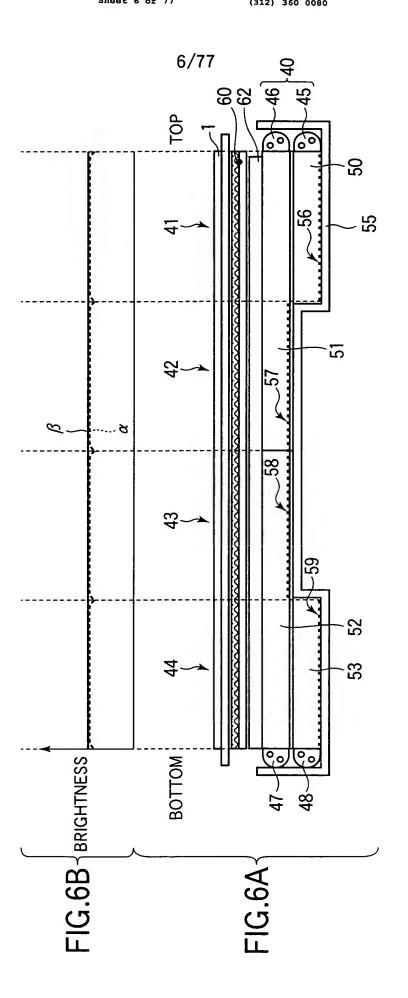


ILLUMINATION DEVICE AND LIQUID ... Oct. 29, 2003 Robayashi et al. Greer, Burns & Crain, Ltd. (Patrick Burns) Ref. No. 1324.68599 Sheet 4 of 77 (312) 360 0080

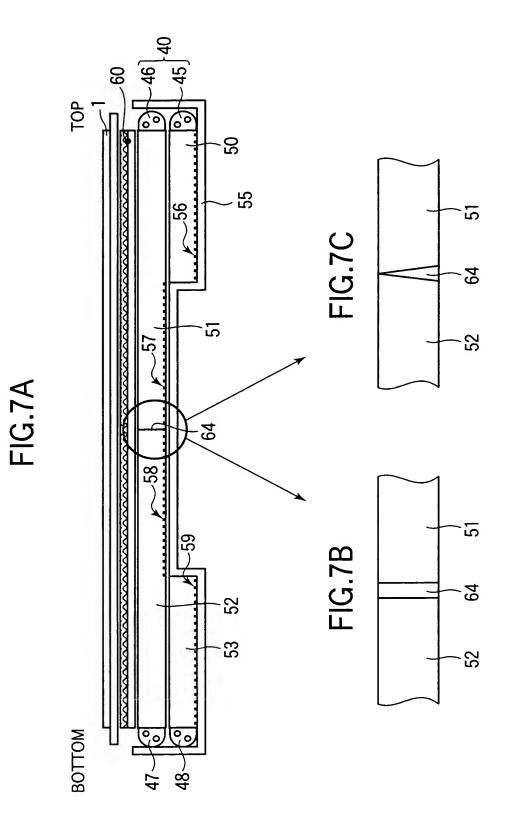
FIG.4







7/77

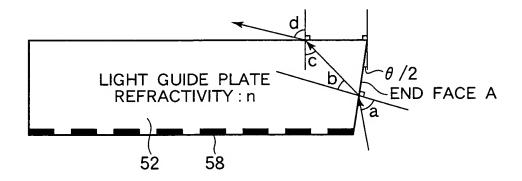


ILLUMINATION DEVICE AND LIQUID ... Oct. 29, 2003 Kobayashi et al. Greer, Burns & Crain, Ltd. (Patrick Burns) Ref. No. 1324.68599 Sheet 8 of 77 (312) 360 0080

FIG.8A



FIG.8B



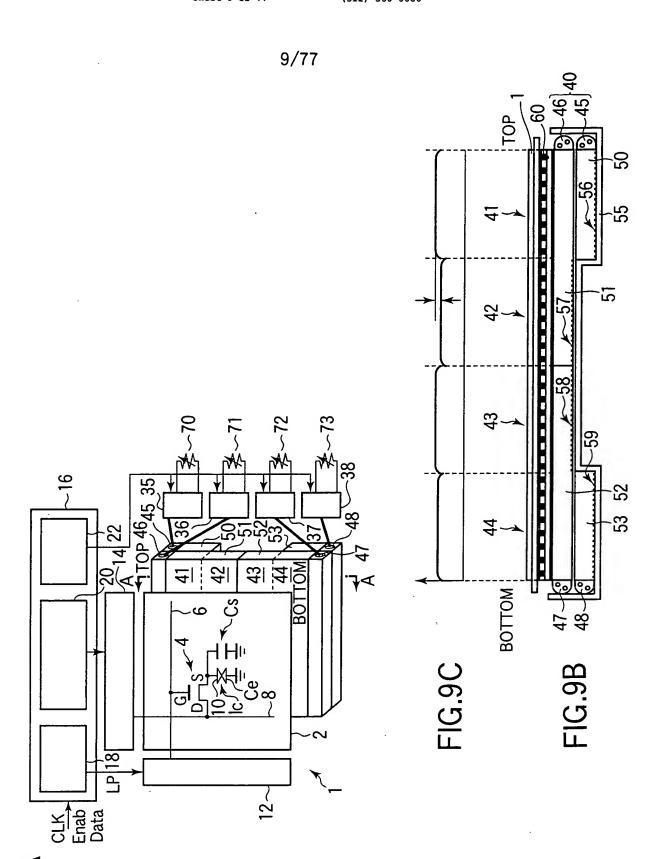


FIG.9A

ILLUMINATION DEVICE AND LIQUID ... Oct. 29, 2003 Robayashi et al. Greer, Burns & Crain, Ltd. (Patrick Burns) Ref. No. 1324.68599
Sheet 10 of 77 (312) 360 0080

FIG.10A

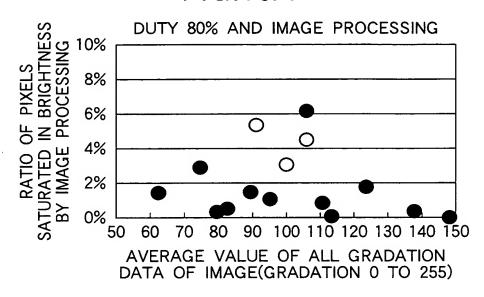


FIG.10B

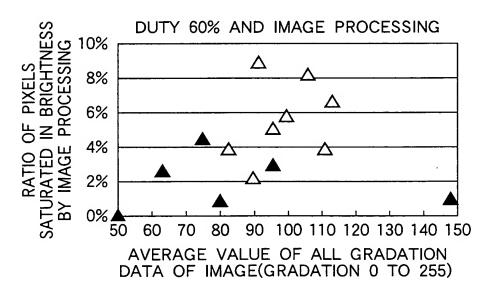


FIG.11

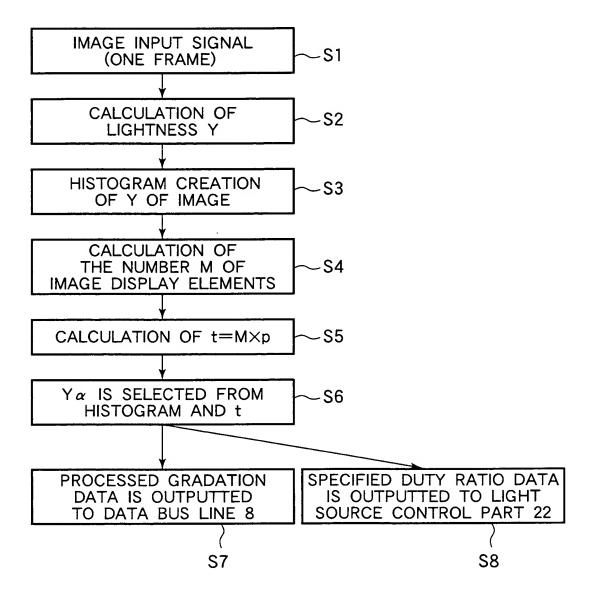
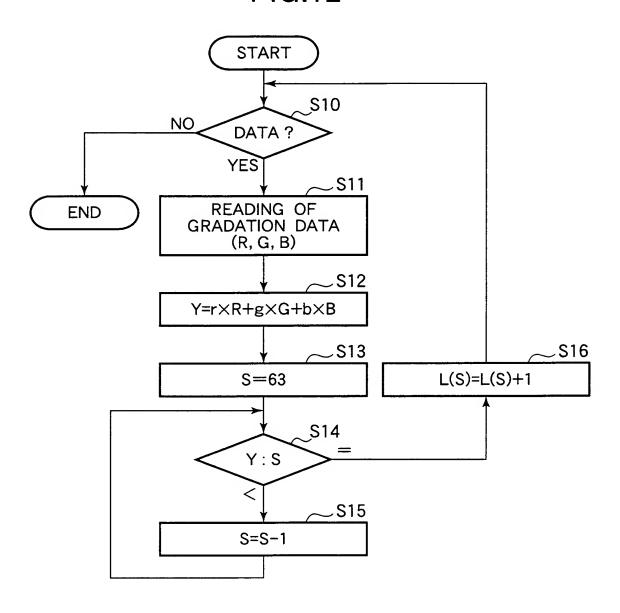
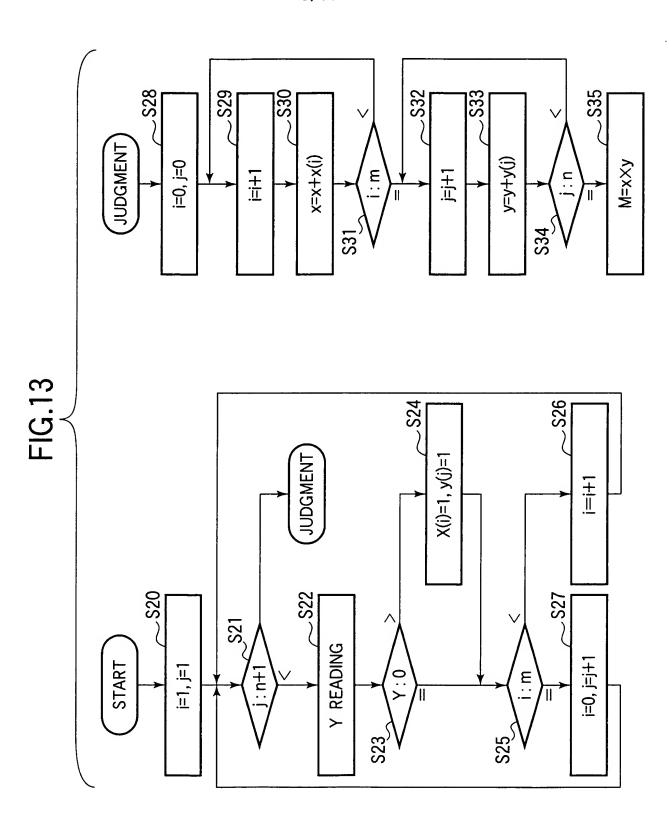


FIG.12

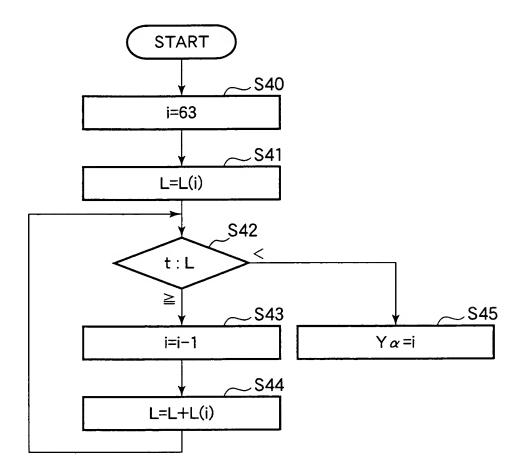


13/77



ILLUMINATION DEVICE AND LIQUID ... Oct. 29, 2003 Kobayashi et al. Greer, Burns & Crain, Ltd. (Patrick Burns) Ref. No. 1324.68599 Sheet 14 of 77 (312) 360 0080

FIG.14



ILLUMINATION DEVICE AND LIQUID ... Oct. 29, 2003 Robayashi et al. Greer, Burns & Crain, Ltd. (Patrick Burns) Ref. No. 1324.68599 Sheet 15 of 77 (312) 360 0080

FIG.15

Υα	duty		
63	100%		
62	96%		
61	93%		
60	90%		
•••	•••		
2	0.4%		
1	0.3%		
0	0.2%		

FIG.16

Y α →	63	62	•••	0
63	100%	100%	100%	100%
62	96%	100%	100%	100%
61	93%			100%
				100%
1	0.3%	0.3%		100%
0	0.2%	0.2%		0.2%

ILLUMINATION DEVICE AND LIQUID ... Oct. 29, 2003 Kobayashi et al. Greer, Burns & Crain, Ltd. (Patrick Burns) Ref. No. 1324.68599 Sheet 16 of 77 (312) 360 0080

FIG.17

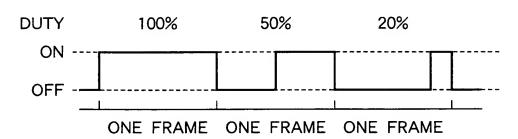
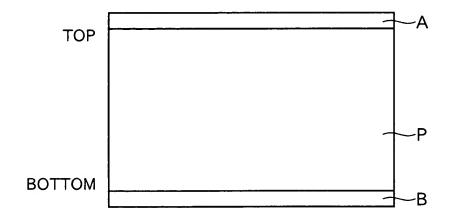


FIG.18



ILLUMINATION DEVICE AND LIQUID ... Oct. 29, 2003 Robayashi et al. Greer, Burns & Crain, Ltd. (Patrick Burns) Ref. No. 1324.68599 Sheet 17 of 77 (312) 360 0080

FIG.19

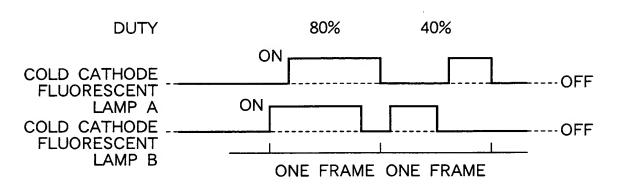
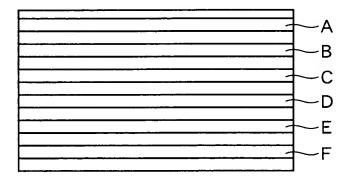
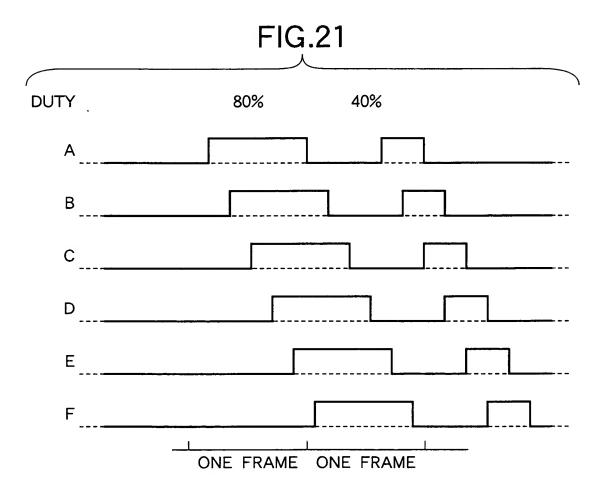


FIG.20

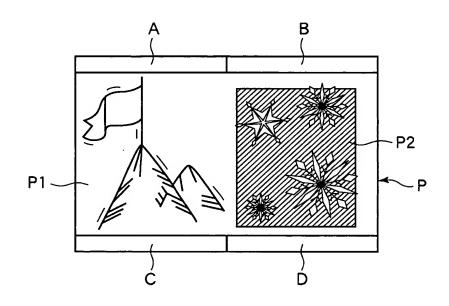


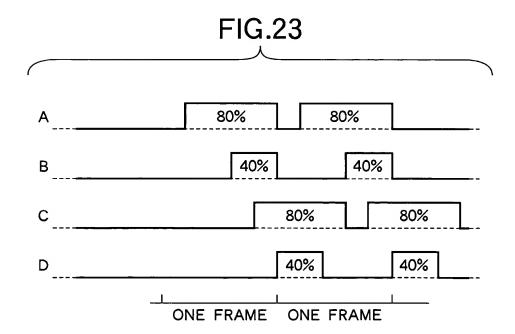
ILLUMINATION DEVICE AND LIQUID ... Oct. 29, 2003 Robayashi et al. Greer, Burns & Crain, Ltd. (Patrick Burns) Ref. No. 1324.68599 Sheet 18 of 77 (312) 360 0080



ILLUMINATION DEVICE AND LIQUID ... Oct. 29, 2003 Robayashi et al. Greer, Burns & Crain, Ltd. (Patrick Burns) Ref. No. 1324.68599 Sheet 19 of 77 (312) 360 0080

FIG.22

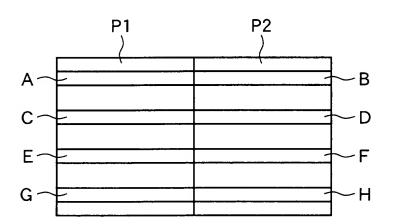




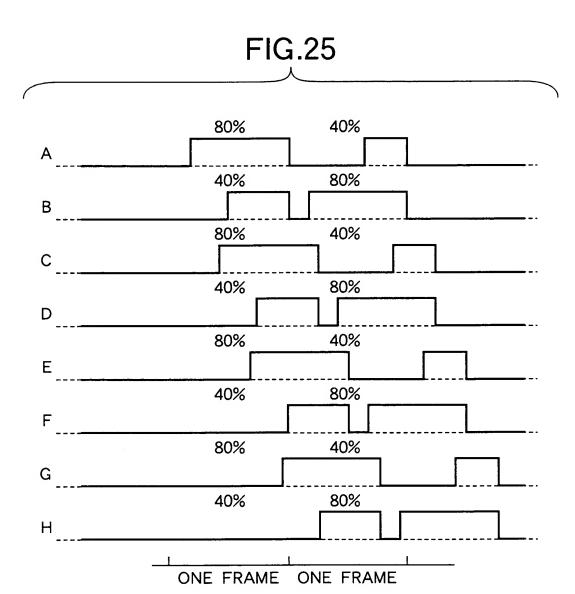
ILLUMINATION DEVICE AND LIQUID ... Oct. 29, 2003 Kobayashi et al. Greer, Burns & Crain, Ltd. (Patrick Burns) Ref. No. 1324.68599 Sheet 20 of 77 (312) 360 0080

20/77

FIG.24

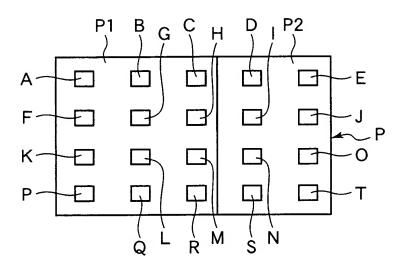


ILLUMINATION DEVICE AND LIQUID ... Oct. 29, 2003 Robayashi et al. Greer, Burns & Crain, Ltd. (Patrick Burns) Ref. No. 1324.68599 Sheet 21 of 77 (312) 360 0080



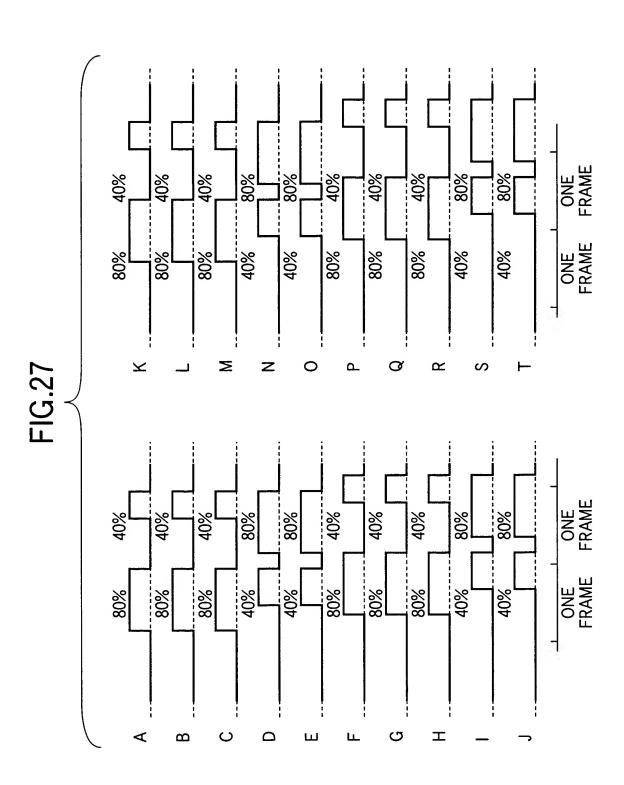
ILLUMINATION DEVICE AND LIQUID ... Oct. 29, 2003 Robayashi et al.
Greer, Burns & Crain, Ltd. (Patrick Burns)
Ref. No. 1324.68599
Sheet 22 of 77 (312) 360 0080

FIG.26



ILLUMINATION DEVICE AND LIQUID ... Oct. 29, 2003 Robayashi et al. Greer, Burns & Crain, Ltd. (Patrick Burns) Ref. No. 1324.68599 Sheet 23 of 77 (312) 360 0080

23/77



ILLUMINATION DEVICE AND LIQUID ... Oct. 29, 2003 Robayashi et al. Greer, Burns & Crain, Ltd. (Patrick Burns) Ref. No. 1324.68599 Sheet 24 of 77 (312) 360 0080

24/77

FIG.28

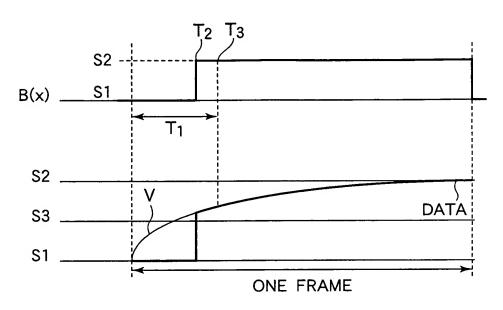
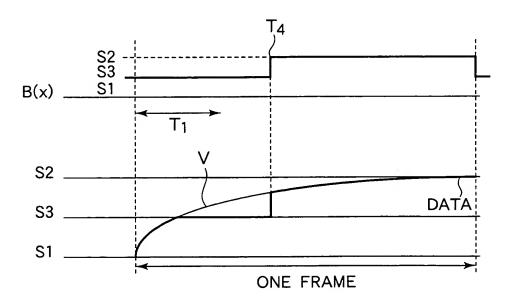
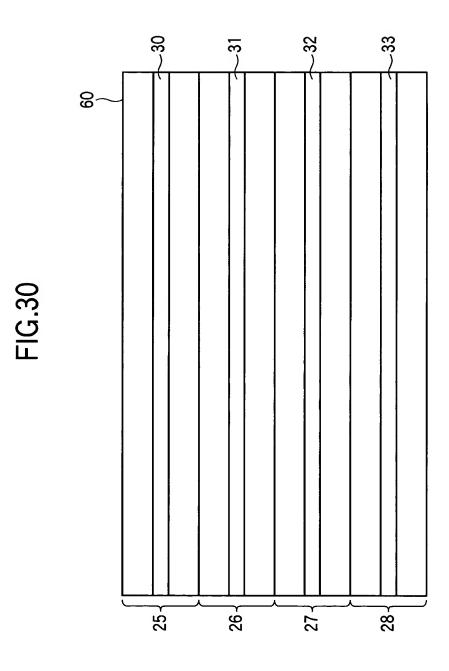


FIG.29



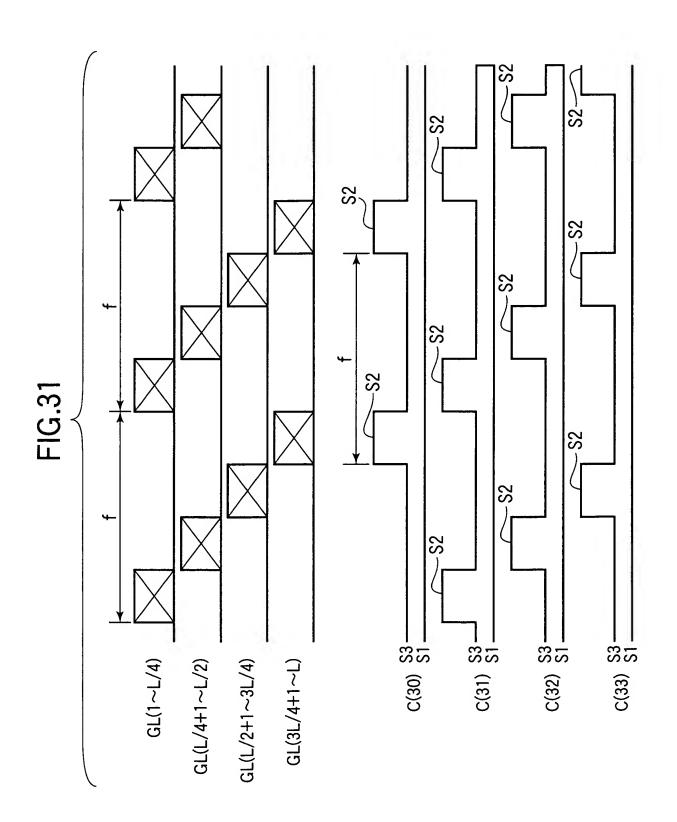
ILLUMINATION DEVICE AND LIQUID ... Oct. 29, 2003 Kobayashi et al. Greer, Burns & Crain, Ltd. (Patrick Burns) Ref. No. 1324.68599 Sheet 25 of 77 (312) 360 0080

25/77



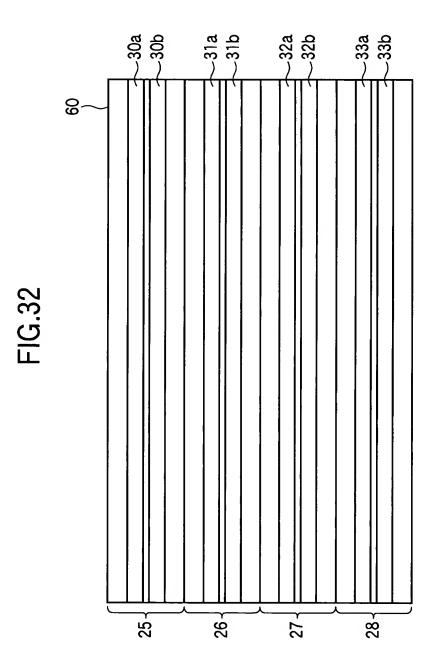
ILLUMINATION DEVICE AND LIQUID ... Oct. 29, 2003 Robayashi et al. Greer, Burns & Crain, Ltd. (Patrick Burns) Ref. No. 1324.68599 Sheet 26 of 77 (312) 360 0080

26/77

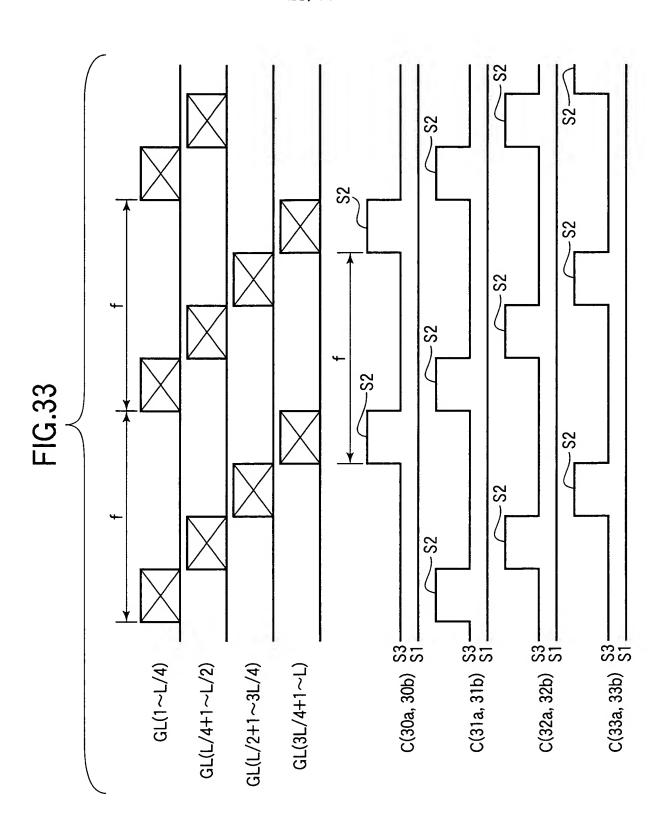


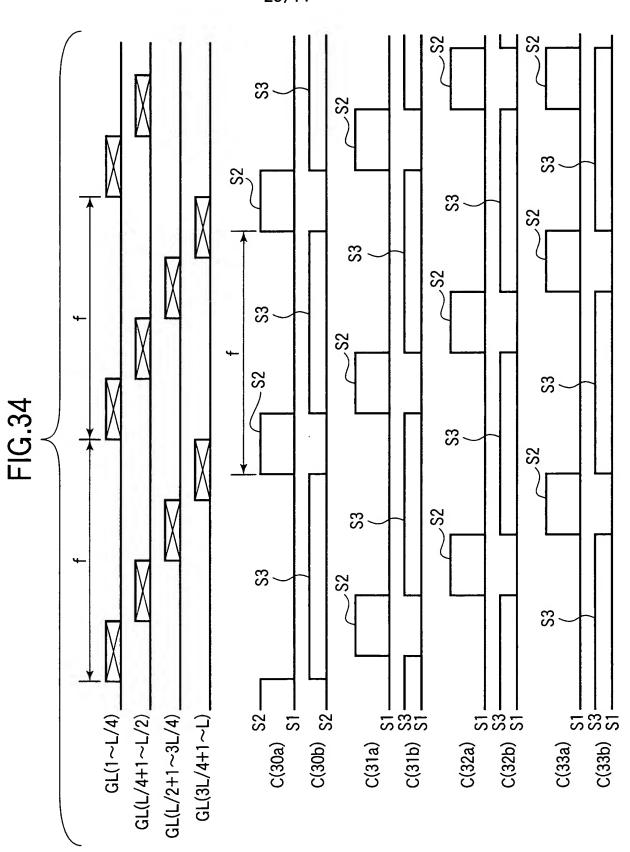
ILLUMINATION DEVICE AND LIQUID ... Oct. 29, 2003 Robayashi et al. Greer, Burns & Crain, Ltd. (Patrick Burns) Ref. No. 1324.68599 Sheet 27 of 77 (312) 360 0080

27/77

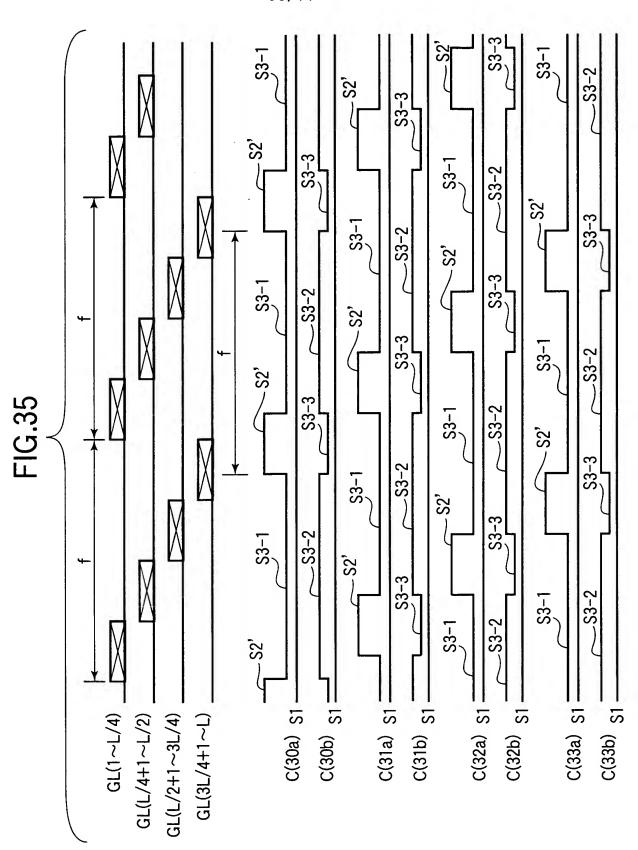


28/77

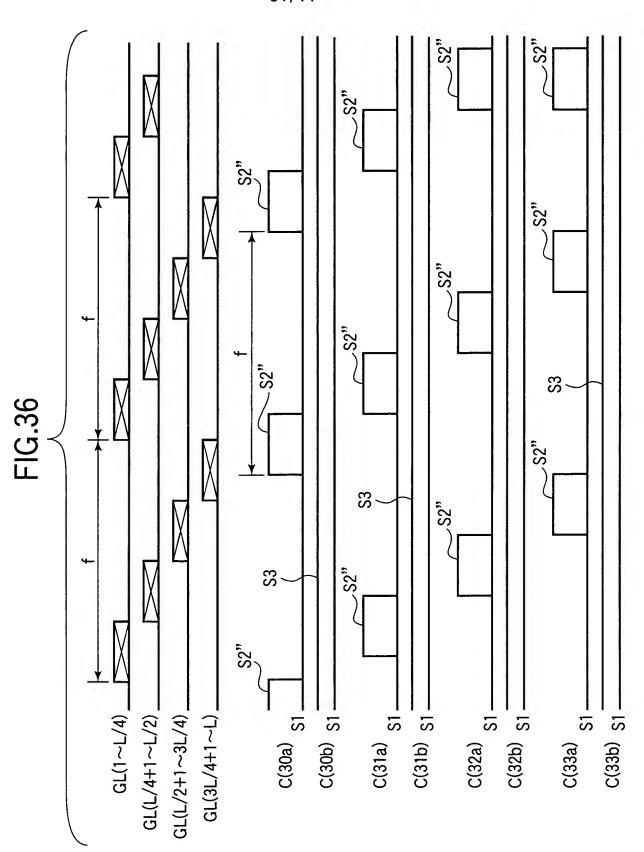






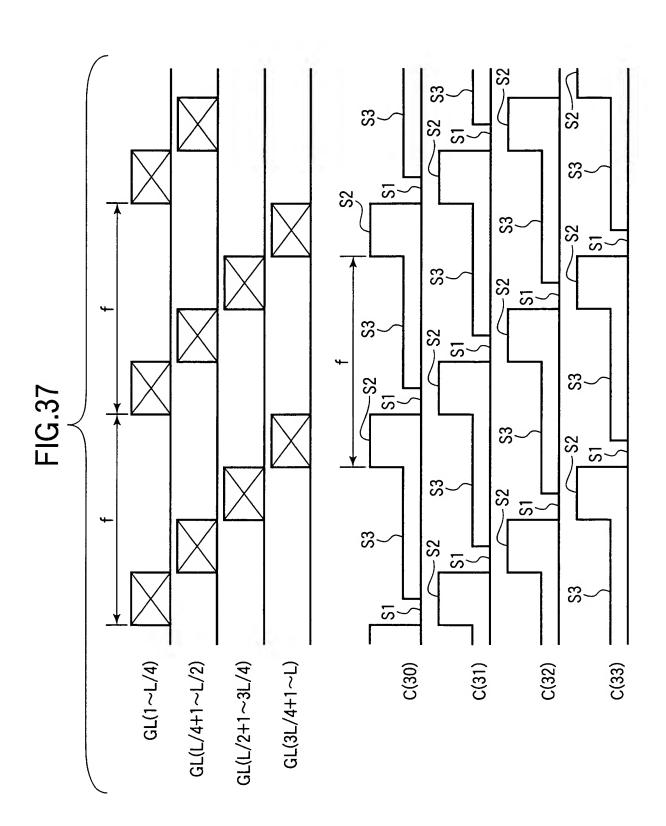


31/77



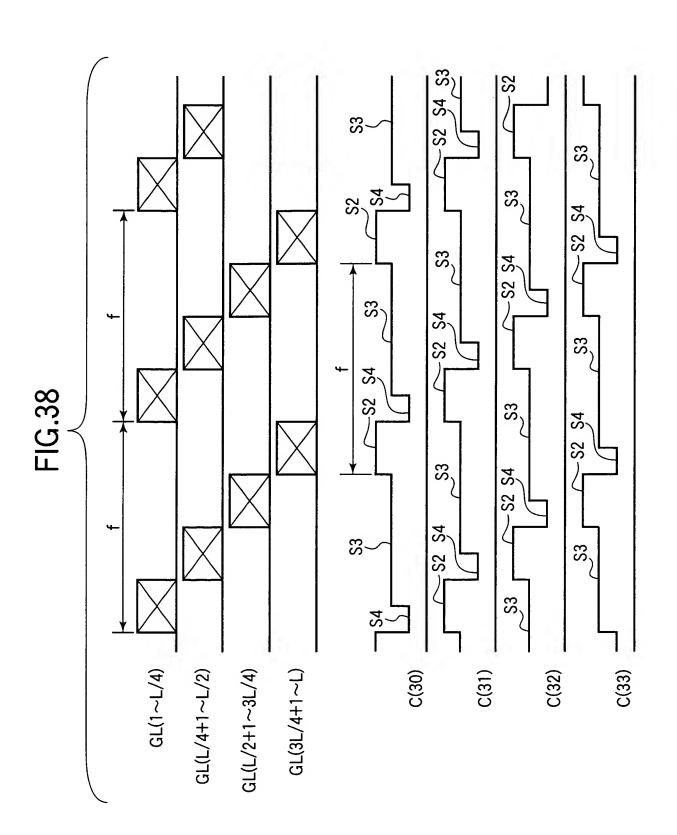
ILLUMINATION DEVICE AND LIQUID ... Oct. 29, 2003 Robayashi et al. Greer, Burns & Crain, Ltd. (Patrick Burns) Ref. No. 1324.68599 Sheet 32 of 77 (312) 360 0080

32/77



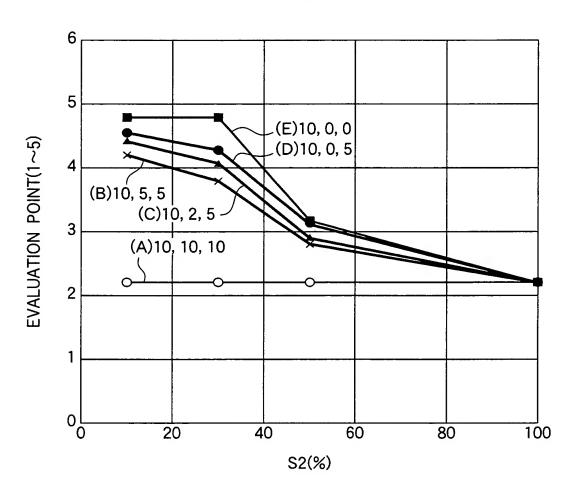
ILLUMINATION DEVICE AND LIQUID ... Oct. 29, 2003 Robayashi et al.
Greer, Burns & Crain, Ltd. (Patrick Burns)
Ref. No. 1324.68599
Sheet 33 of 77 (312) 360 0080

33/77



ILLUMINATION DEVICE AND LIQUID ... oct. 29, 2003 Robayashi et al. Greer, Burns & Crain, Ltd. (Patrick Burns) Ref. No. 1324.68599 Sheet 34 of 77 (312) 360 0080

FIG.39



35/77

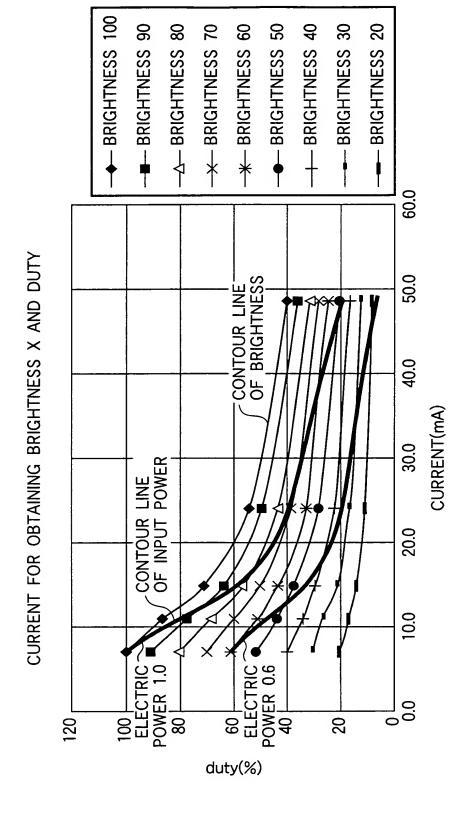
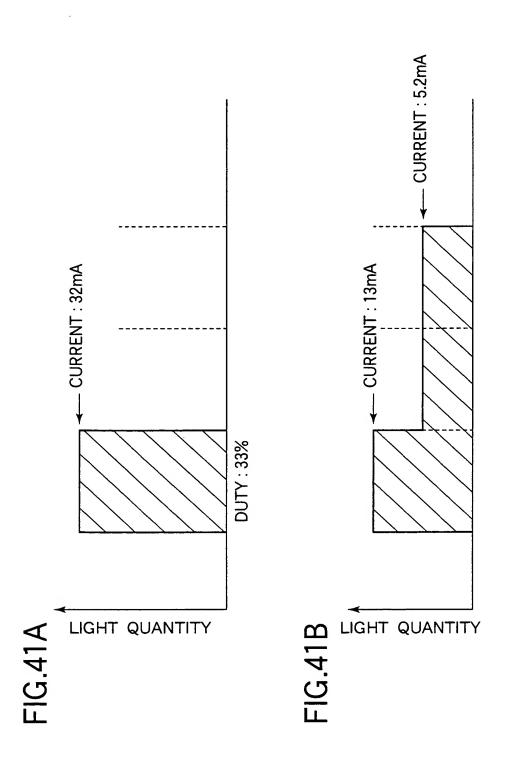
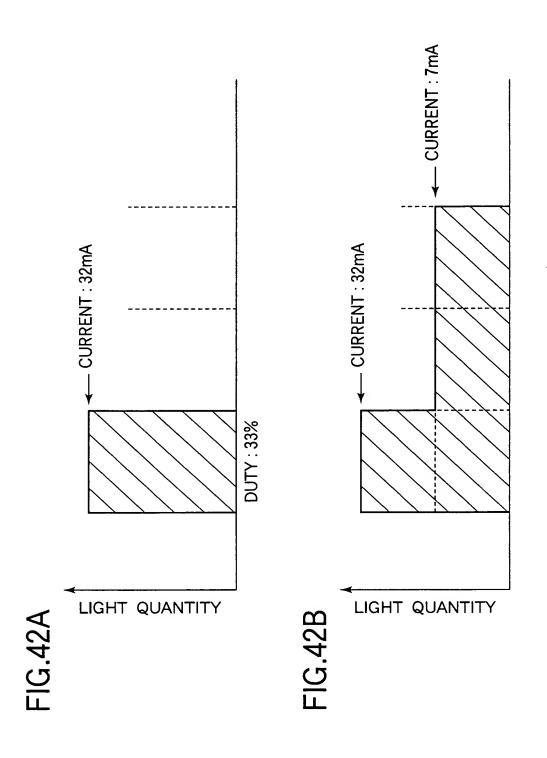


FIG.40

36/77

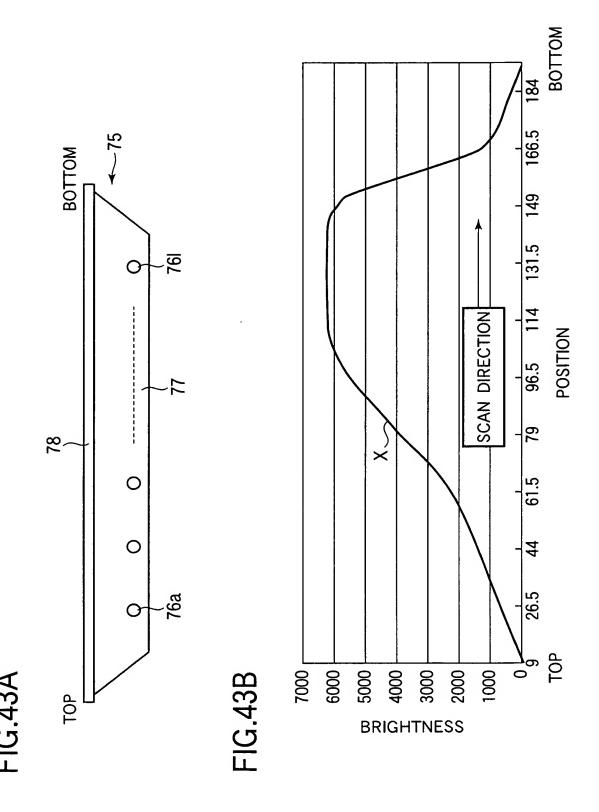


37/77



Robayashi et al.
Greer, Burns & Crain, Ltd. (Patrick Burns)
Ref. No. 1324.68599
Sheet 38 of 77 (312) 360 0080 (312) 360 0080

38/77



39/77

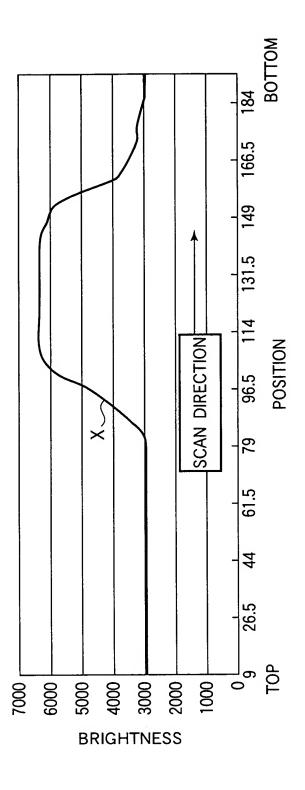
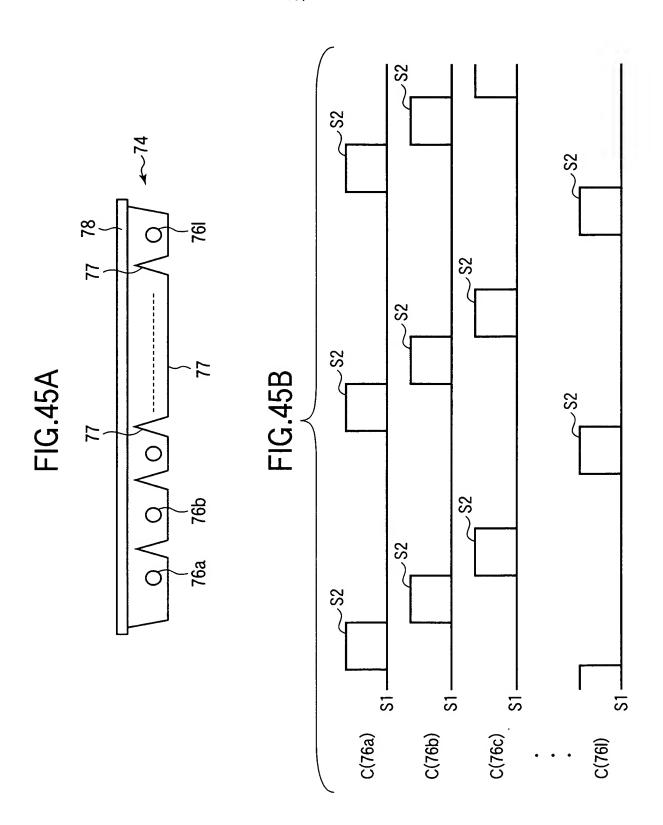
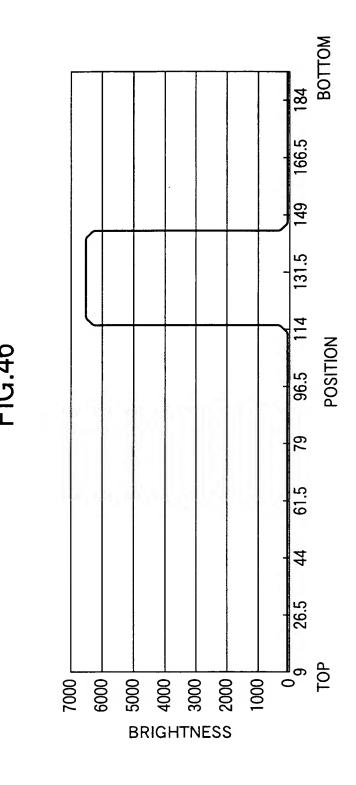


FIG.44

40/77



41/77



42/77

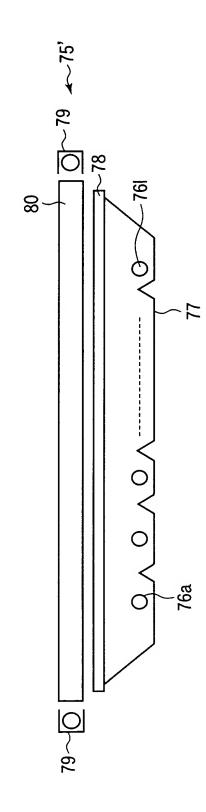


FIG.47

43/77

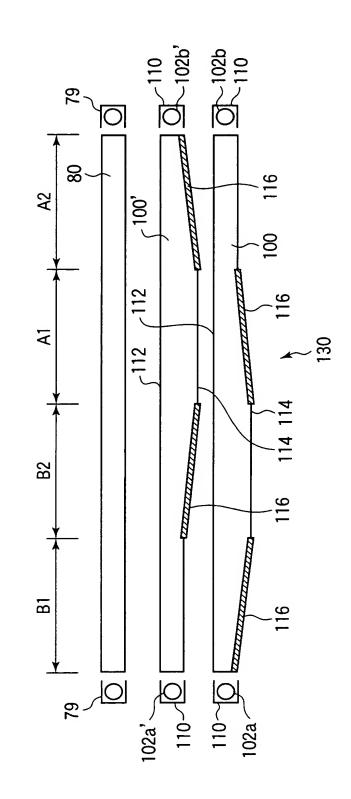
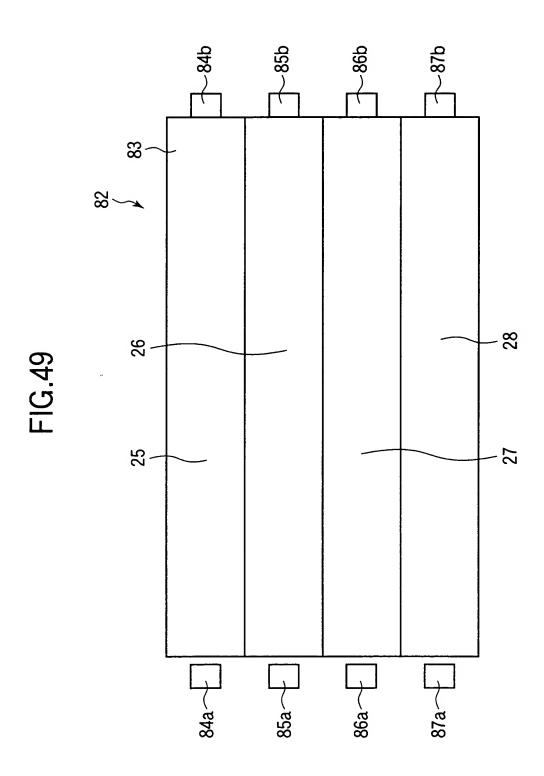


FIG.48

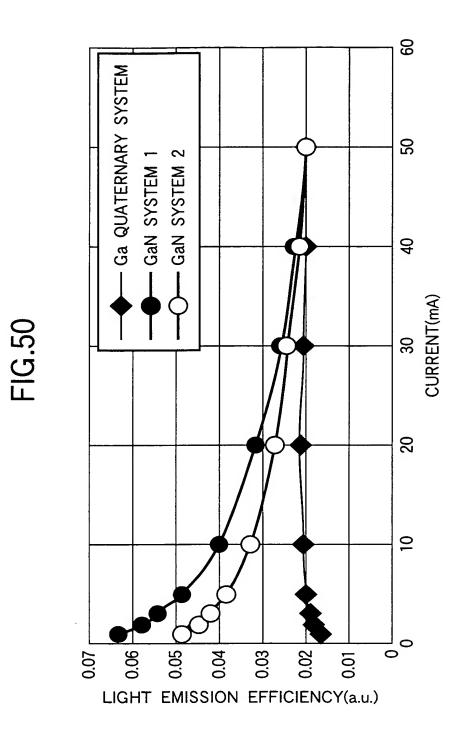
ILLUMINATION DEVICE AND LIQUID ... Oct. 29, 2003 Kobayashi et al. Greer, Burns & Crain, Ltd. (Patrick Burns) Ref. No. 1324.68599 Sheet 44 of 77 (312) 360 0080

44/77



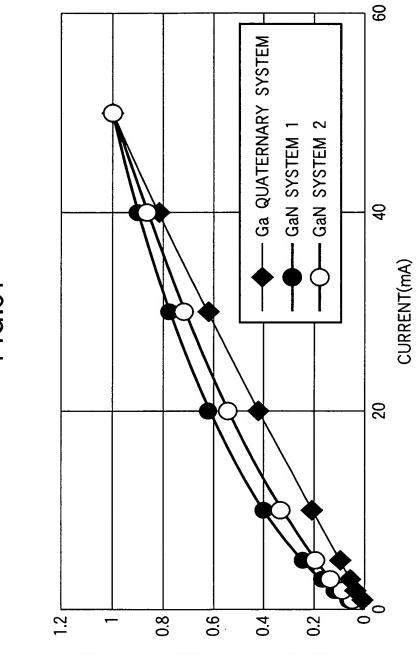
ILLUMINATION DEVICE AND LIQUID ... Oct. 29, 2003 Robayashi et al. Greer, Burns & Crain, Ltd. (Patrick Burns) Ref. No. 1324.68599 Sheet 45 of 77 (312) 360 0080

45/77



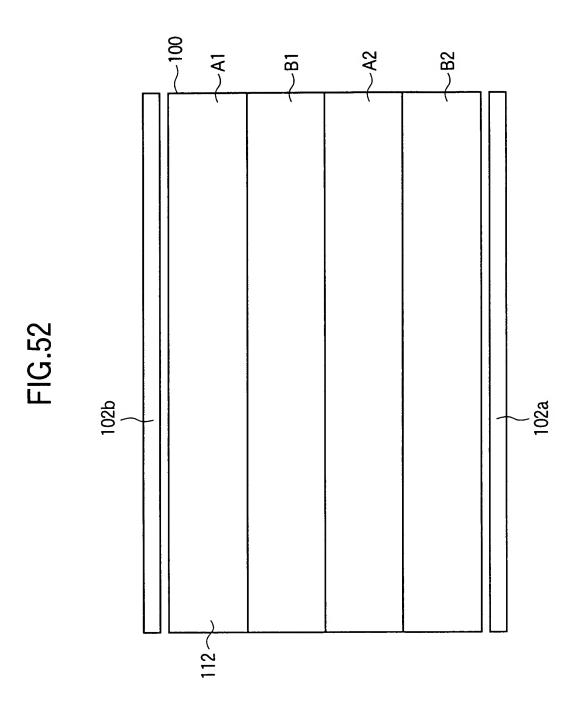
ILLUMINATION DEVICE AND LIQUID ... Oct. 29, 2003 Robayashi et al. Greer, Burns & Crain, Ltd. (Patrick Burns) Ref. No. 1324.68599 Sheet 46 of 77 (312) 360 0080

46/77



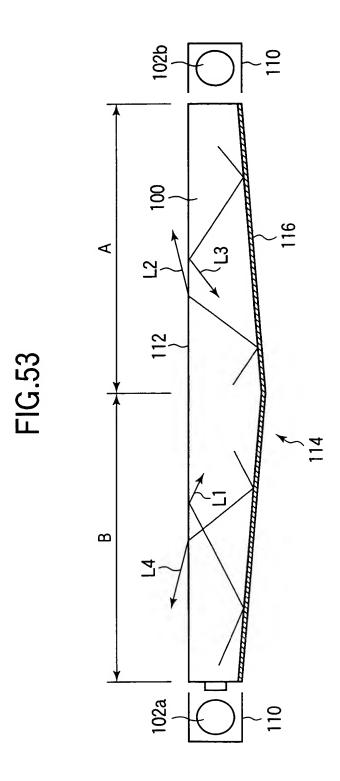
LIGHT EMISSION EFFICIENCY(a.u.)

47/77

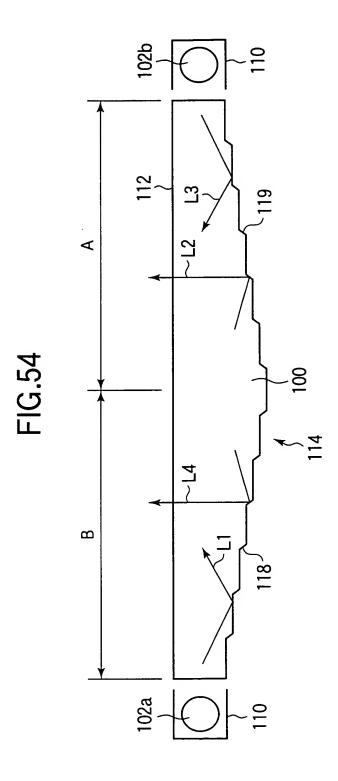


ILLUMINATION DEVICE AND LIQUID ... Oct. 29, 2003 Robayashi et al. Greer, Burns & Crain, Ltd. (Patrick Burns) Ref. No. 1324.68599 Sheet 48 of 77 (312) 360 0080

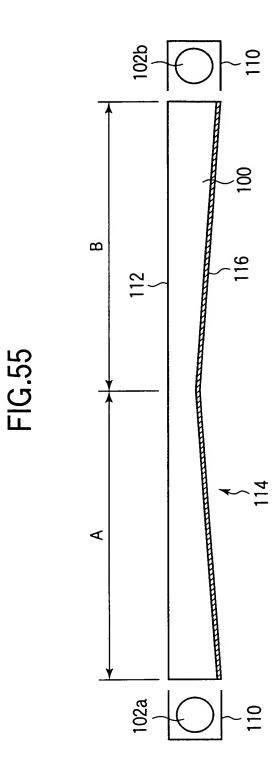
48/77



49/77



50/77



ILLUMINATION DEVICE AND LIQUID ... Oct. 29, 2003 Kobayashi et al. Greer, Burns & Crain, Ltd. (Patrick Burns) Ref. No. 1324.68599 Sheet 51 of 77 (312) 360 0080

51/77

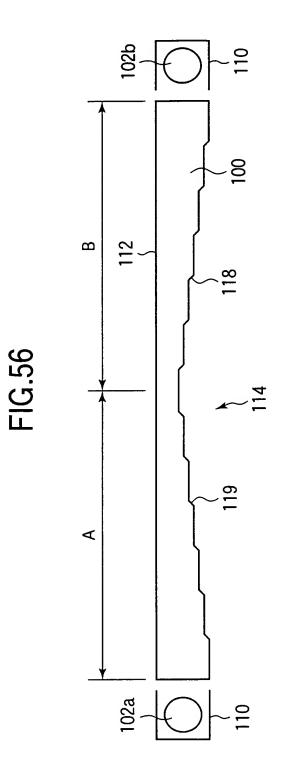
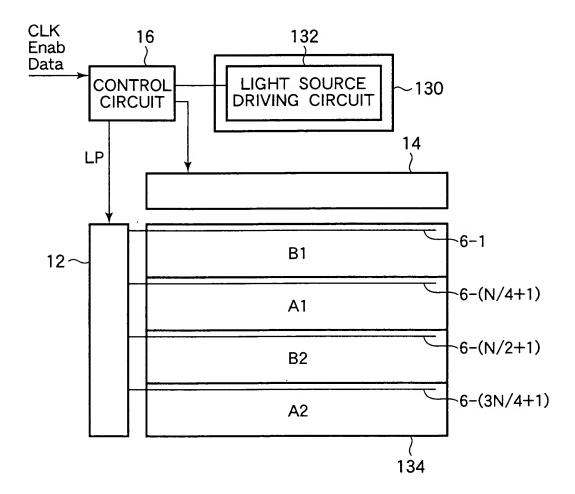
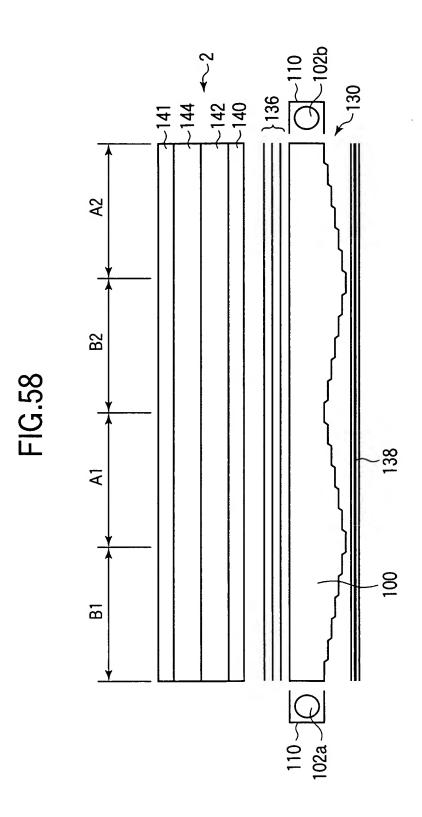


FIG.57

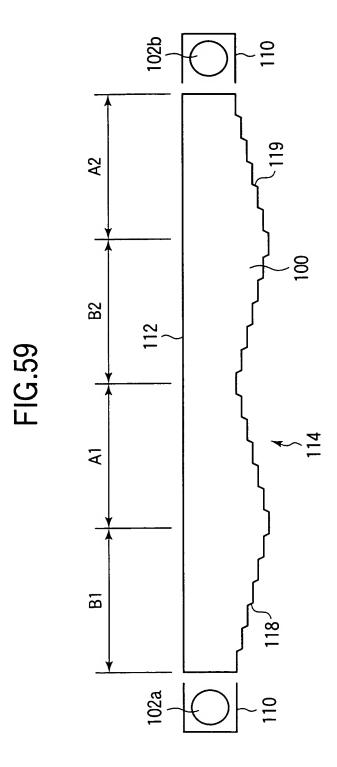


ILLUMINATION DEVICE AND LIQUID ... Oct. 29, 2003 Robayashi et al. Greer, Burns & Crain, Ltd. (Patrick Burns) Ref. No. 1324.68599 Sheet 53 of 77 (312) 360 0080

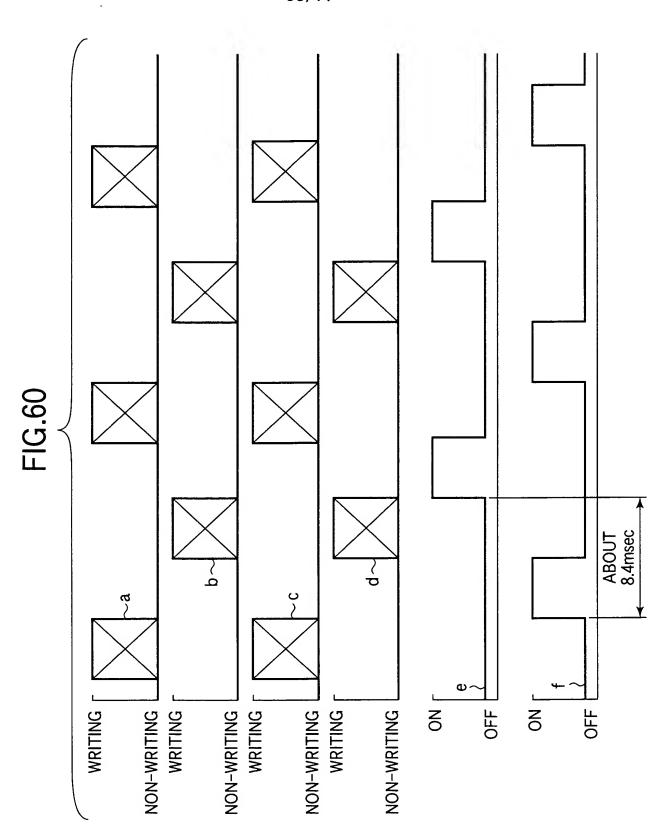
53/77



54/77

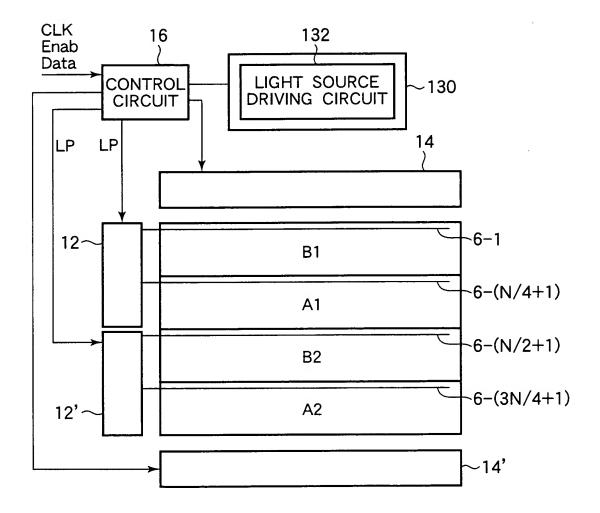


ILLUMINATION DEVICE AND LIQUID ... Oct. 29, 2003 Kobayashi et al. Greer, Burns & Crain, Ltd. (Patrick Burns) Ref. No. 1324.68599 Sheet 55 of 77 (312) 360 0080

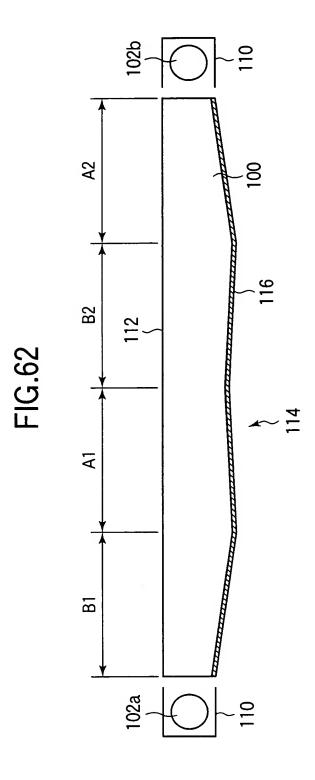


ILLUMINATION DEVICE AND LIQUID ... Oct. 29, 2003 Robayashi et al. Greer, Burns & Crain, Ltd. (Patrick Burns) Ref. No. 1324.68599 Sheet 56 of 77 (312) 360 0080

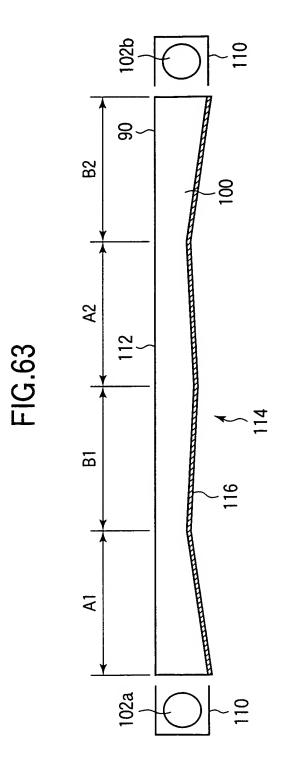
FIG.61



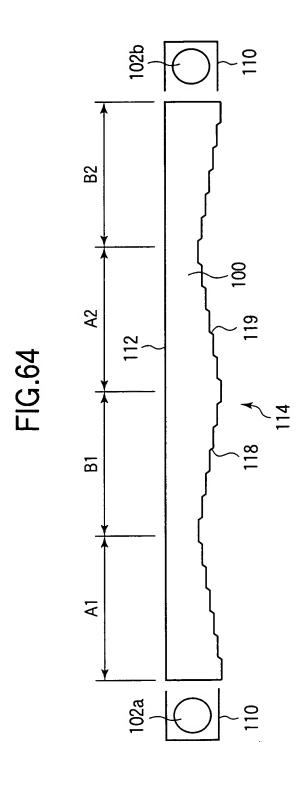
57/77



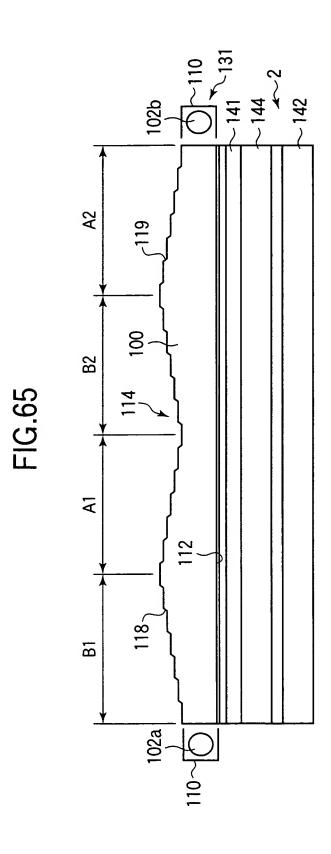
58/77



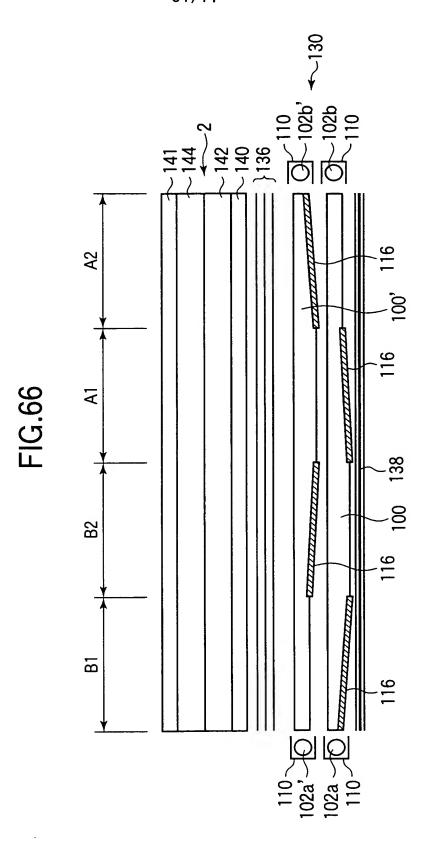
59/77



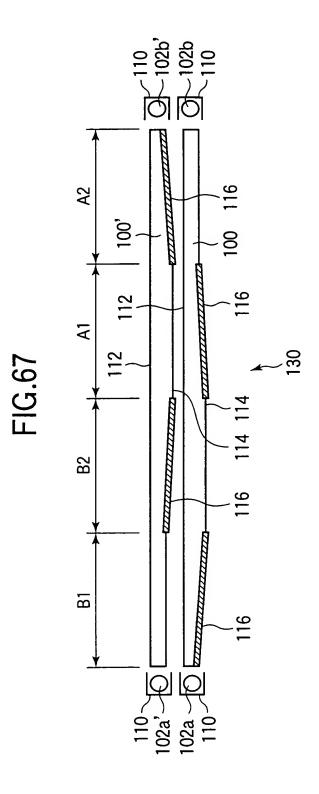
60/77



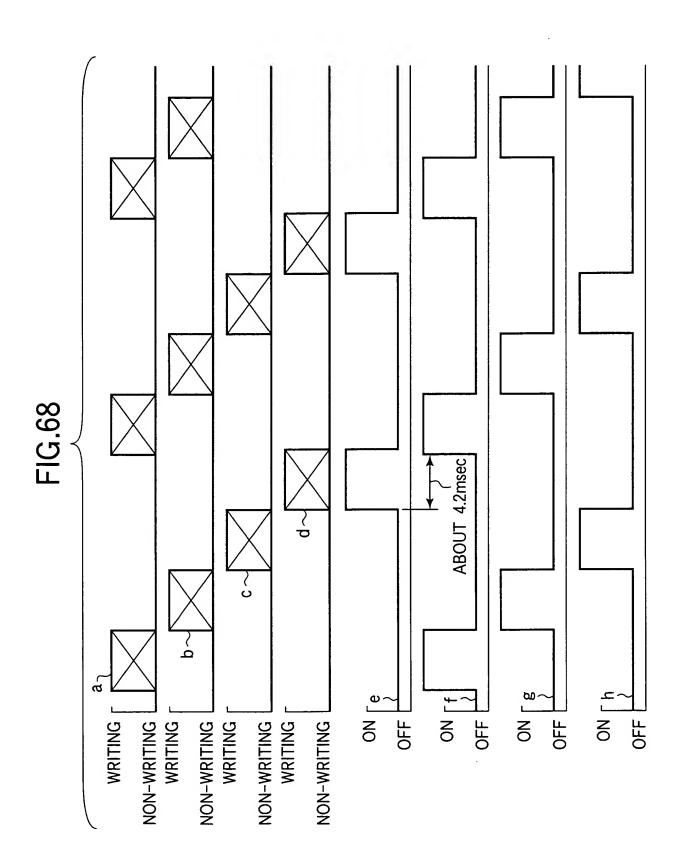
61/77



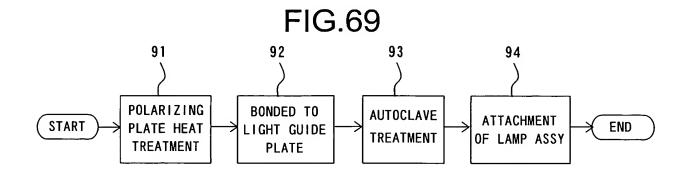
62/77

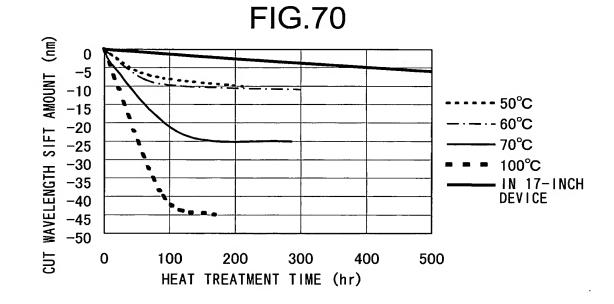


63/77



64/77





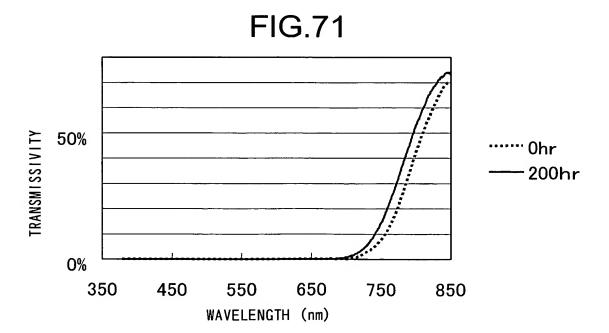
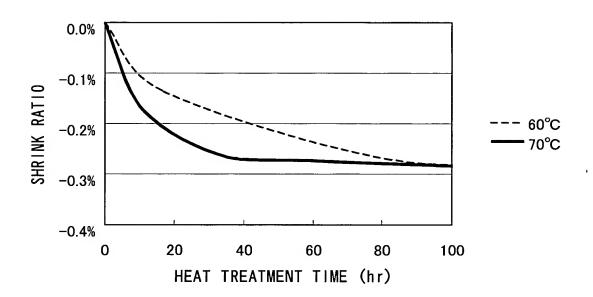
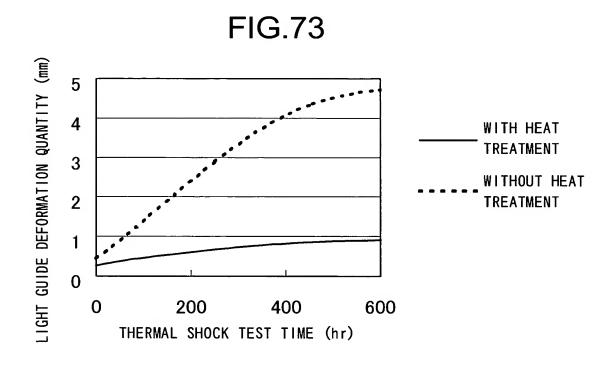


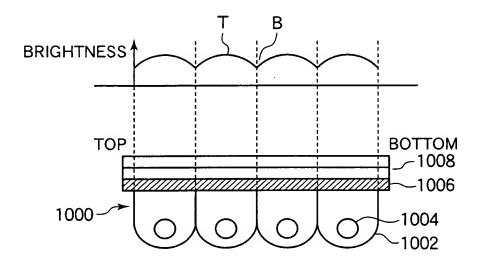
FIG.72



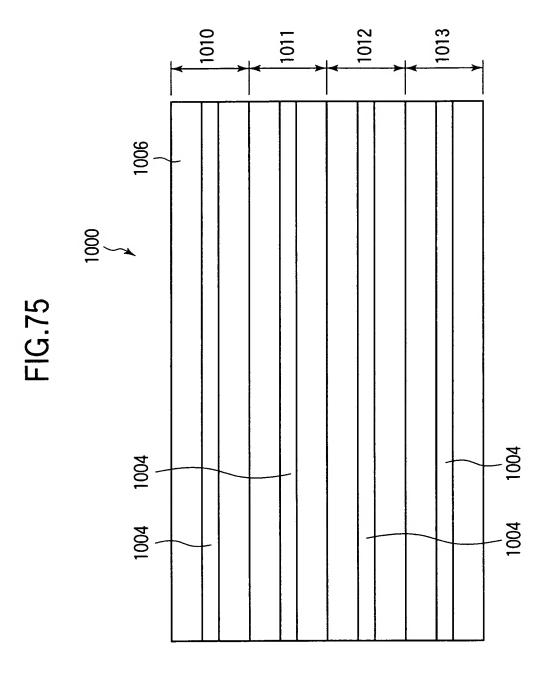


ILLUMINATION DEVICE AND LIQUID ... Oct. 29, 2003 Kobayashi et al. Greer, Burns & Crain, Ltd. (Patrick Burns) Ref. No. 1324.68599 Sheet 66 of 77 (312) 360 0080

FIG.74



67/77



ILLUMINATION DEVICE AND LIQUID ... Oct. 29, 2003 Robayashi et al. Greer, Burns & Crain, Ltd. (Patrick Burns) Ref. No. 1324.68599 Sheet 68 of 77 (312) 360 0080

68/77

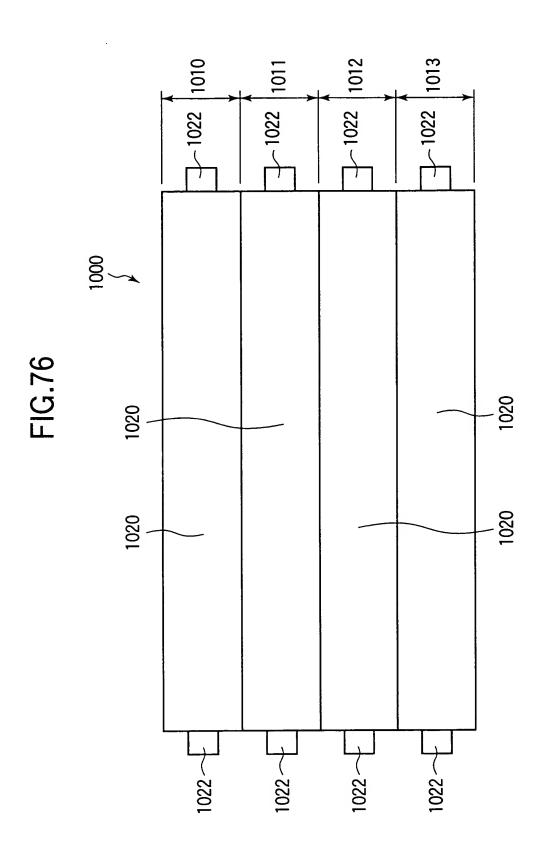
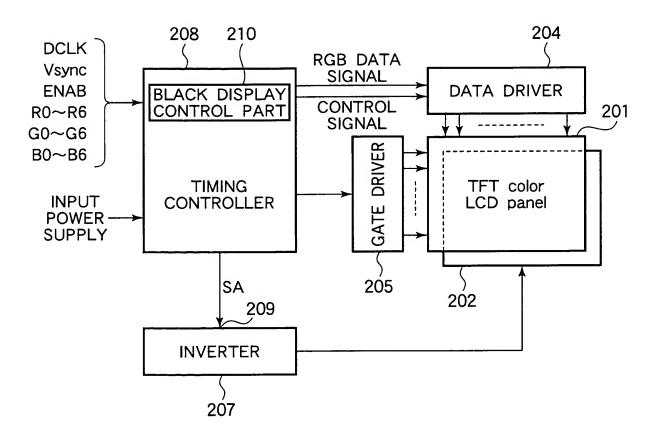


FIG.77



70/77

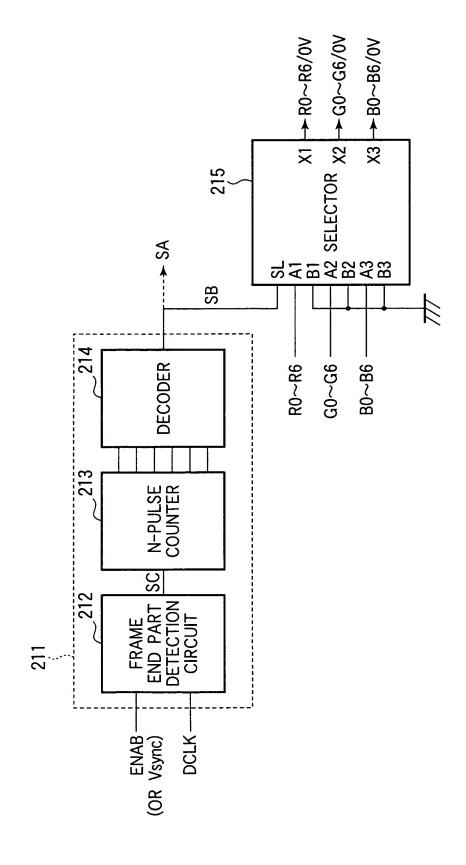
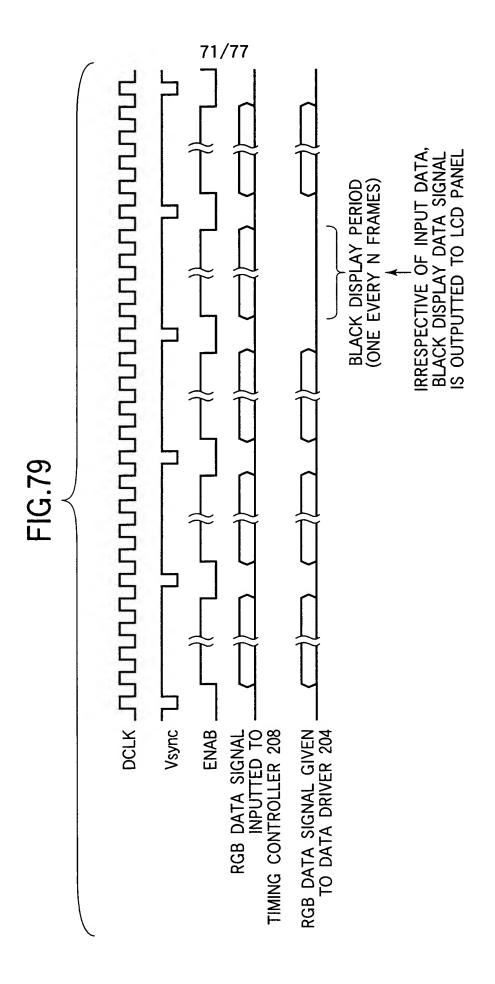
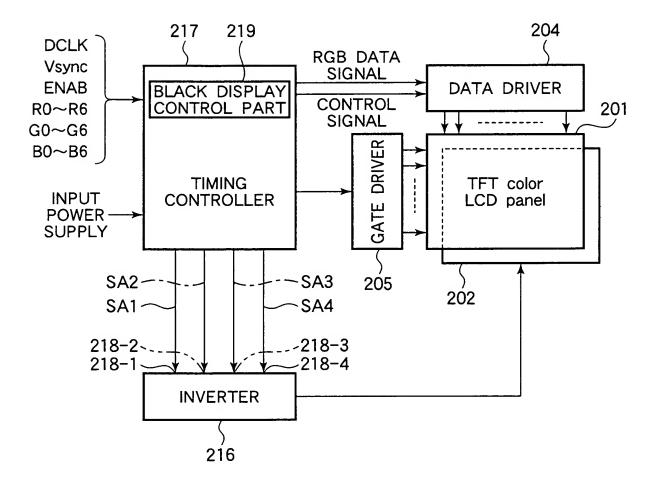


FIG.78



ILLUMINATION DEVICE AND LIQUID ... Oct. 29, 2003 Robayashi et al. Greer, Burns & Crain, Ltd. (Patrick Burns) Ref. No. 1324.68599 Sheet 72 of 77 (312) 360 0080

FIG.80



73/77

FIG.81

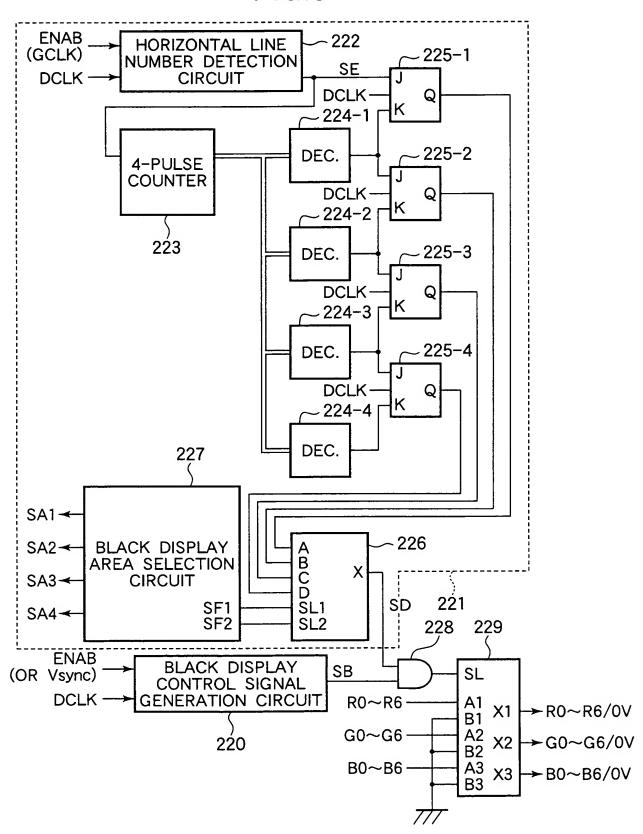
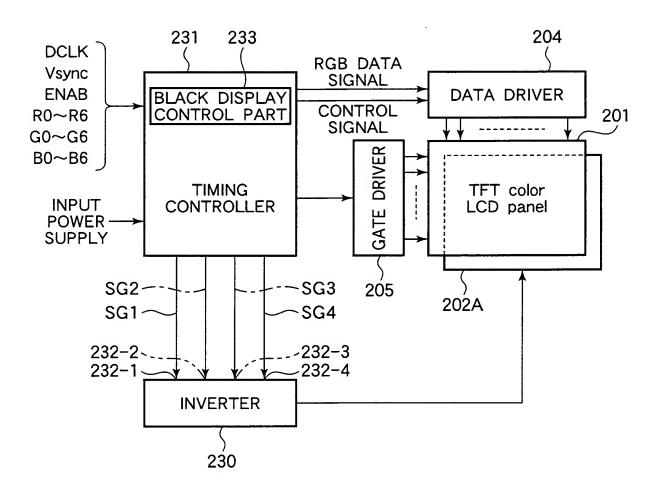
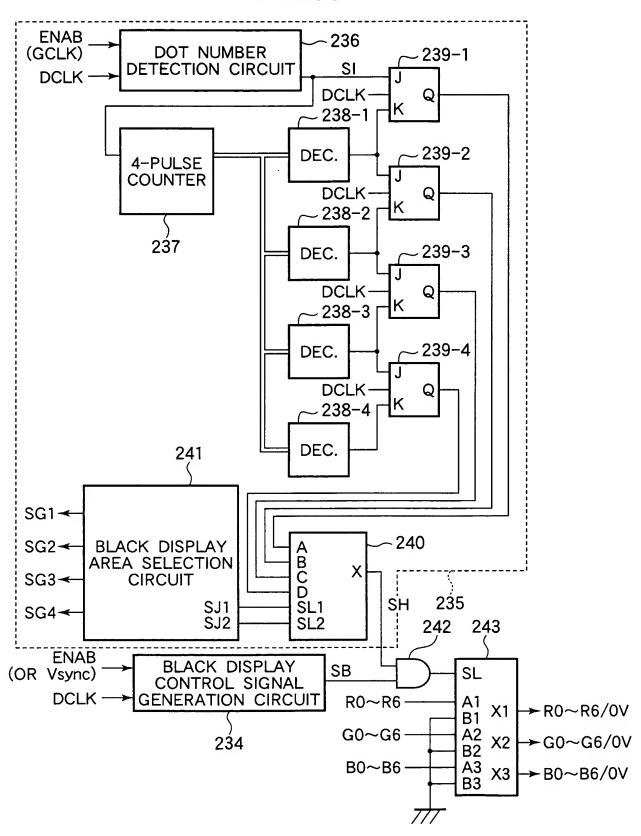


FIG.82



75/77

FIG.83



ILLUMINATION DEVICE AND LIQUID ... Oct. 29, 2003 Robayashi et al. Greer, Burns & Crain, Ltd. (Patrick Burns) Ref. No. 1324.68599 Sheet 76 of 77 (312) 360 0080

FIG.84

